

# LITTLE COLORADO RIVER BASIN

## 09386300 LITTLE COLORADO RIVER BELOW ZION RESERVOIR, NEAR ST. JOHNS, AZ

**LOCATION**--Lat 34°36'17", long 109°29'19", in SE1/4NW1/4 sec. 21, T.14 N., R.27 E., Apache County, Hydrologic Unit 15020002, on left bank 0.50 mi downstream from Zion Reservoir, 10 mi northwest of St. Johns.

**DRAINAGE AREA**--Undetermined.

**PERIOD OF RECORD**--Sept. 1998 to current year.

**GAGE**--Water-stage recorder and crest-stage gage. Elevation of gage is 5,530 ft above sea level, from topographic map.

**REMARKS**--Records fair, except for estimated daily discharges, which are poor. Flow regulated by many small reservoirs - combined capacity, about 15,500 acre-ft. Diversions for irrigation of about 6,700 acres above station. Published under station number 09386100, from Sept. 1998 to Sept. 30, 2003.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 2,470 ft<sup>3</sup>/s Sept. 11, 2002, gage height, 11.84 ft, from an extension of the rating curve based on the weir equation for submerged weir flow. Minimum daily discharge, no flow for many days.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Aug. 14 .....	2330	*267	*5.90

Minimum daily discharge, no flow for many days.

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.5	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.67	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.00
MAX	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	116	0.00

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	0.54	0.04	0.25	0.37	0.15	0.08	0.03	0.00	0.00	0.09	10.4	32.8
MAX	3.07	0.26	0.86	0.79	0.43	0.25	0.16	0.00	0.00	0.39	60.0	196
(WY)	2002	2003	2003	2000	2003	2000	2000	1999	2000	1999	2001	2002
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	2003	2002	2000

### SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1998 - 2004

ANNUAL TOTAL	41.84	58.69	
ANNUAL MEAN	0.11	0.16	
HIGHEST ANNUAL MEAN			3.71
LOWEST ANNUAL MEAN			16.5
HIGHEST DAILY MEAN	2.0 Jan 6	39 Aug 15	2002
LOWEST DAILY MEAN	0.00 Apr 1	0.00 Oct 1	2000
ANNUAL SEVEN-DAY MINIMUM	0.00 Apr 1	0.00 Oct 1	2140 Sep 12 2002
ANNUAL RUNOFF (AC-FT)	83	116	0.00 Sep 11 1998
10 PERCENT EXCEEDS	0.45	0.00	0.00 Sep 11 1998
50 PERCENT EXCEEDS	0.00	0.00	
90 PERCENT EXCEEDS	0.00	0.00	

e Estimated

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1998 to current year.

INSTRUMENTATION.-- Automatic pumping sampler installed September 1998.

REMARKS.-- Suspended-sediment discharge computed from sample data and by interpretation of a sample based suspended-sediment and streamflow discharge curve.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.17	<0.01	<0.01	---	---	---	---	---	---
2	---	---	---	0.08	<0.01	<0.01	---	---	---	---	---	---
3	---	---	---	0.05	<0.01	0.01	---	---	---	---	---	---
4	---	---	<0.01	0.07	e0.02	0.01	---	---	---	---	---	---
5	---	---	<0.01	0.04	0.02	0.03	---	---	---	---	---	---
6	---	---	0.01	0.05	<0.01	0.05	---	---	---	---	---	---
7	386	---	0.01	0.07	<0.01	0.06	---	---	---	---	---	---
8	85	---	0.02	0.10	<0.01	0.03	---	---	---	---	---	---
9	5.3	---	0.02	0.11	e0.02	0.02	---	---	---	---	---	<0.01
10	0.15	---	0.02	0.17	e0.02	0.01	---	---	---	---	---	402
11	0.04	---	0.02	0.19	e0.02	<0.01	---	---	---	---	---	13400
12	0.02	---	0.03	0.07	e0.02	<0.01	---	---	---	---	---	65600
13	<0.01	---	0.02	0.05	e0.03	<0.01	---	---	---	---	---	16800
14	<0.01	---	0.01	0.02	e0.03	<0.01	---	---	---	---	---	675
15	<0.01	---	e0.01	0.02	e0.03	---	---	---	---	---	---	100
16	<0.01	---	e0.01	0.02	e0.04	---	---	---	---	---	---	14
17	<0.01	---	e0.04	0.03	0.06	---	---	---	---	---	---	1.7
18	<0.01	---	e0.04	0.02	e0.02	---	---	---	---	---	---	1770
19	---	---	e0.04	<0.01	e0.03	---	---	---	0.76	---	---	29400
20	---	---	0.02	e0.03	e0.03	---	---	---	0.47	---	---	5790
21	---	---	0.04	e0.02	e0.02	---	---	---	---	0.08	---	371
22	---	---	0.02	e0.03	0.05	---	---	---	---	<0.01	---	64
23	---	---	0.01	e0.02	0.04	---	---	---	---	---	---	14
24	---	---	<0.01	e0.01	e0.02	---	---	---	---	---	---	2.7
25	---	---	<0.01	e0.01	e0.02	---	---	---	---	---	---	0.46
26	---	---	e0.03	e0.01	e0.01	---	---	---	---	---	---	0.14
27	---	---	e0.04	e0.01	e0.01	---	---	---	---	0.29	---	0.03
28	---	---	e0.14	<0.01	e0.01	---	---	---	---	0.03	---	<0.01
29	---	---	0.15	<0.01	---	---	---	---	---	<0.01	---	<0.01
30	---	---	0.21	<0.01	---	---	---	---	---	<0.01	---	<0.01
31	---	---	0.11	<0.01	---	---	---	---	---	<0.01	---	---
TOTAL	---	---	---	1.52	0.63	---	---	---	---	---	---	---
MEAN	---	---	---	0.05	0.02	---	---	---	---	---	---	---
MAX	---	---	---	0.19	0.06	---	---	---	---	---	---	---
MIN	---	---	---	0.01	0.01	---	---	---	---	---	---	---

< Actual value is known to be less than the value shown  
e EstimatedSUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	<0.01	<0.01	0.07	<0.01	0.07	e0.13	---	---	---	---	---	---
2	<0.01	<0.01	0.07	<0.01	0.05	e0.12	---	---	---	---	---	---
3	<0.01	<0.01	0.89	0.01	0.01	e0.10	---	---	---	---	---	---
4	---	<0.01	0.69	0.05	<0.01	0.07	---	---	---	---	---	---
5	---	<0.00	0.29	e0.15	0.01	0.04	---	---	---	---	---	---
6	---	<0.01	0.30	e0.48	0.01	0.03	---	---	---	---	---	---
7	---	<0.01	0.28	e0.46	0.01	0.03	---	---	---	---	---	---
8	---	<0.01	0.26	e0.34	0.02	0.02	---	---	---	---	---	---
9	---	<0.01	0.21	e0.30	0.02	0.01	---	---	---	---	---	---
10	---	0.02	0.17	e0.24	0.04	<0.01	---	---	---	---	---	---
11	---	<0.01	0.15	0.18	0.05	<0.01	---	---	---	---	---	---
12	---	<0.01	0.13	0.14	0.06	<0.01	---	---	---	---	---	---
13	---	<0.01	0.12	0.12	0.06	<0.01	---	---	---	---	---	---
14	---	<0.01	0.13	0.15	e0.10	<0.01	---	---	---	---	---	---
15	---	<0.01	0.15	0.13	e0.13	<0.01	---	---	---	---	---	---
16	---	<0.01	0.12	0.09	0.10	<0.01	---	---	---	---	---	---
17	---	<0.01	0.11	0.08	0.07	<0.01	---	---	---	---	---	---
18	1.3	<0.01	0.13	0.07	0.07	<0.01	---	---	---	---	---	---
19	0.03	<0.01	0.17	0.06	0.12	<0.01	---	---	---	---	---	---
20	<0.01	<0.01	0.07	0.06	0.10	<0.01	---	---	---	---	---	---
21	<0.01	e0.01	0.06	0.08	0.08	<0.01	---	---	---	---	---	---
22	<0.01	e0.01	0.04	0.08	0.05	<0.01	---	---	---	---	---	---
23	<0.01	e0.01	0.03	0.07	0.03	<0.01	---	---	---	---	---	---
24	<0.01	e0.02	0.02	0.09	0.03	<0.01	---	---	---	---	---	---
25	<0.01	e0.02	0.01	0.08	0.02	<0.01	---	---	---	---	---	---
26	<0.01	0.02	<0.01	0.07	0.06	<0.01	---	---	---	---	---	---
27	<0.01	0.03	<0.01	0.07	0.05	<0.01	---	---	---	---	---	---
28	<0.01	0.03	<0.01	0.07	0.09	<0.01	---	---	---	---	0.01	---
29	<0.01	0.04	<0.01	0.08	---	<0.01	---	---	---	---	---	---
30	<0.01	0.05	<0.01	0.07	---	<0.01	---	---	---	---	---	---
31	<0.01	---	<0.01	0.07	---	<0.01	---	---	---	---	---	---
TOTAL	---	0.44	4.73	3.96	1.52	0.77	---	---	---	---	---	---
MEAN	---	0.01	0.15	0.13	0.05	0.02	---	---	---	---	---	---
MAX	---	0.05	0.89	0.48	0.13	0.13	---	---	---	---	---	---
MIN	---	0.00	0.01	0.01	0.01	0.01	---	---	---	---	---	---

< Actual value is known to be less than the value shown  
e Estimated

## WATER-QUALITY RECORDS

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	<0.01	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	<0.01	---	---	---	---	---	---	601	---	---
15	---	---	---	---	---	---	---	---	---	1300	---	---
16	---	---	---	---	---	---	---	---	---	74	---	---
17	---	---	---	---	---	---	---	---	---	0.20	---	---
18	---	---	---	---	---	---	---	---	---	<0.01	---	---
19	---	---	---	---	---	---	---	---	---	<0.01	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

< Actual value is known to be less than the value shown

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	54	9.0	77	---	---	---	---	---	---
2	---	---	---	49	10	71	---	---	---	---	---	---
3	---	---	---	47	11	67	---	---	---	---	---	---
4	---	---	1.0	46	21	63	---	---	---	---	---	---
5	---	---	11	45	15	60	---	---	---	---	---	---
6	---	---	13	42	13	58	---	---	---	---	---	---
7	515	---	13	41	13	57	---	---	---	---	---	---
8	640	---	13	42	17	56	---	---	---	---	---	---
9	233	---	13	42	33	54	---	---	---	---	---	4.0
10	69	---	14	43	37	53	---	---	---	---	---	443
11	31	---	14	43	38	53	---	---	---	---	---	3920
12	13	---	15	41	43	50	---	---	---	---	---	11300
13	10	---	15	37	50	32	---	---	---	---	---	5080
14	10	---	15	35	52	19	---	---	---	---	---	1700
15	10	---	15	33	53	---	---	---	---	---	---	903
16	10	---	16	31	56	---	---	---	---	---	---	573
17	9.0	---	16	31	57	---	---	---	---	---	---	232
18	4.0	---	15	31	59	---	---	---	---	---	---	1700
19	---	---	15	30	62	---	---	---	---	112	---	8140
20	---	---	14	28	65	---	---	---	---	134	---	3700
21	---	---	14	25	76	---	---	---	---	103	---	1340
22	---	---	14	21	75	---	---	---	---	61	---	808
23	---	---	14	17	78	---	---	---	---	---	---	517
24	---	---	13	14	79	---	---	---	---	---	---	269
25	---	---	14	11	81	---	---	---	---	---	---	152
26	---	---	18	9.0	84	---	---	---	---	---	---	96
27	---	---	30	8.0	86	---	---	---	---	37	---	52
28	---	---	48	8.0	84	---	---	---	---	35	---	23
29	---	---	53	8.0	---	---	---	---	---	21	---	14
30	---	---	54	8.0	---	---	---	---	---	10	---	10
31	---	---	54	9.0	---	---	---	---	---	---	---	---
TOTAL	---	---	---	929.0	1357.0	---	---	---	---	---	---	---
MEAN	---	---	---	30	48	---	---	---	---	---	---	---
MAX	---	---	---	54	86	---	---	---	---	---	---	---
MIN	---	---	---	8.0	9.0	---	---	---	---	---	---	---

## WATER-QUALITY RECORDS

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	14	24	16	69	49	---	---	---	---	---	---
2	5.0	13	28	16	69	46	---	---	---	---	---	---
3	1.0	13	96	17	68	43	---	---	---	---	---	---
4	---	13	107	22	67	41	---	---	---	---	---	---
5	---	13	73	42	68	38	---	---	---	---	---	---
6	---	13	67	89	67	37	---	---	---	---	---	---
7	---	13	64	91	60	35	---	---	---	---	---	---
8	---	13	63	74	55	34	---	---	---	---	---	---
9	---	12	61	65	50	33	---	---	---	---	---	---
10	---	15	59	60	46	32	---	---	---	---	---	---
11	---	14	58	56	43	31	---	---	---	---	---	---
12	---	12	57	53	39	31	---	---	---	---	---	---
13	---	12	56	54	35	31	---	---	---	---	---	---
14	---	11	56	66	37	31	---	---	---	---	---	---
15	---	11	55	63	40	31	---	---	---	---	---	---
16	---	11	54	58	40	32	---	---	---	---	---	---
17	---	11	53	55	41	32	---	---	---	---	---	---
18	66	12	51	53	43	32	---	---	---	---	---	---
19	27	13	54	50	48	33	---	---	---	---	---	---
20	21	13	44	49	51	34	---	---	---	---	---	---
21	19	13	39	47	53	36	---	---	---	---	---	---
22	17	14	37	46	56	35	---	---	---	---	---	---
23	17	13	33	46	58	34	---	---	---	---	---	---
24	17	16	29	51	59	32	---	---	---	---	---	---
25	17	17	24	54	57	31	---	---	---	---	---	---
26	16	17	23	57	56	28	---	---	---	---	---	---
27	16	18	22	62	51	26	---	---	---	---	---	---
28	16	20	22	65	50	25	---	---	---	---	10	---
29	16	20	21	67	---	24	---	---	---	---	---	---
30	15	21	18	68	---	24	---	---	---	---	---	---
31	14	---	17	68	---	24	---	---	---	---	---	---
TOTAL	---	421	1465	1680	1476	1025	---	---	---	---	---	---
MEAN	---	14	47	54	53	33	---	---	---	---	---	---
MAX	--	21	107	91	69	49	---	---	---	---	---	---
MIN	--	11	17	16	35	24	---	---	---	---	---	---

SUSPENDED SEDIMENT CONCENTRATION, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	e10	---	---	---	---	---	---	---	---	---
13	---	---	e10	---	---	---	---	---	---	---	---	---
14	---	---	e10	---	---	---	---	---	---	---	2850	---
15	---	---	---	---	---	---	---	---	---	---	5220	---
16	---	---	---	---	---	---	---	---	---	---	2130	---
17	---	---	---	---	---	---	---	---	---	---	441	---
18	---	---	---	---	---	---	---	---	---	---	e35	---
19	---	---	---	---	---	---	---	---	---	---	e16	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated